BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : Renovation of Chier Engineer Chamber in Yelahanka Zonal office Buidling in ward No. 09

EMB
Detail Measurement

Job Code : 009-23-000016

BRUHATH BANGALORE MAHANAGARAPALIKE
YELAHANKA ZONE
1st and Final bill

Name of work: Renovation of Chier Engineer Chamber in Yelahanka Zonal office Buidling in ward No. 09

Work Order No: BBMP/EE/BTP/WO/200/2020-21 dt: 28.03.2023

JOB NUMBER: 009-23-000016

Estimate Cost: 15.00 lakhs.

Name of Contractor : Sri. Siddesha

Sl. No.	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
1	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground to the appropriate disposal area as per direction of Engineer-in-charge. (Vol-2, Pg No.169 Item No 19.53 of PWD SR 2021-22)								
	Qty Recorded as per Premeasurement Item No. Page No. 1 to 2						**310.00**	**31.90**	**9889.00**
2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material to the appropriate disposal area as per direction of Engineer-in-charge. For thickness of tiles 10 mm to 25 mm. (Vol-2, Pg No.165 Item No 19.22.1 of PWD SR 2021-22)								
	Qty Recorded as per Premeasurement Item No. Page No. 2						**91.00**	**40.70**	**3704.00**
3	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge to the appropriate disposal area. (Vol-2, Pg No.169 Item No 19.57 of PWD SR 2021-22)								
	Plaster	Cum	300.0			0.03	**7.50**	900	
	Tiles	Cum	90.0			0.05	**4.50**		
							12.00	**95.70**	**1148.00**
4	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material to the appropriate disposal area as per direction of Engineer-in-charge. (Vol-2, Pg No.169 Item No 19.54 of PWD SR 2021-22)								
	Qty Recorded as per Premeasurement Item No. Page No. 2						**39.00**	**30.80**	**1201.00**
5	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete as per specifications and as per directions of Engineer in charge.(Vol-2, Pg No.51 Item No 8.57 of PWD SR 2021-22)								
	Qty Recorded as per Premeasurement Item No. Page No. 2 to 3						**257.98**	**11.00**	**2838.00**
6	Providing 12 mm cement plaster with cement mortar 1:6 (1 cement: 6 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (Vol-2, Pg No.41								
	Plastering								
	Inside walls								
	Room 1	sqm	2.0	6.70		3.60	**48.24**		
		sqm	2.0	6.40		3.60	**46.08**		
	CE office	sqm	2.0	6.00		3.60	**43.20**		
		sqm	2.0	3.30		3.60	**23.76**		
		sqm	2.0	0.33		3.60	**2.38**		
	Anti room	sqm	2.0	2.75		3.60	**19.80**		
		sqm	2.0	1.77		3.60	**12.74**		
		sqm	2.0	0.30		3.60	**2.16**		
	Toilet	sqm	2.0	2.10		1.50	**6.30**		

204.66

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Sl. No.	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
		sqm	2.0	1.60		1.50	**4.80**		
	Entrance	sqm	1.0	3.30		3.60	**11.88**		
		sqm	1.0	1.70		3.60	**6.12**		
		sqm	1.0	2.30		3.60	**8.28**		
		sqm	1.0	1.45		3.60	**5.22**		
	C1	sqm	1.0	0.52		3.60	**1.87**		
	C2	sqm	1.0	1.30		3.60	**4.68**		
	C3	sqm	1.0	0.20		3.60	**0.72**		
	Ceiling								
	Room 1	sqm	1.0	6.80	6.40		**43.52**		
	CE office	sqm	1.0	6.00	3.30		**19.80**		
	Anti room	sqm	1.0	2.75	1.60		**4.40**		
		sqm	1.0	1.85	0.50		**0.93**		
	Toilet	sqm	1.0	2.10	1.60		**3.36**		
	Entrance	sqm	1.0	1.50	1.85		**2.78**		
		sqm	1.0	1.50	1.45		**2.18**		
							325.21		
	Dedutions								
	D1	sqm	1.0		1.10	2.10	**2.31**		
	D2	sqm	1.0		0.90	2.10	**1.89**		
	D3	sqm	1.0		0.75	2.10	**1.58**		
	W	sqm	3.0		1.20	1.30	**4.68**		
		sqm	1.0		0.60	1.30	**0.78**		
	Entrance passage	sqm	0.5	1.85		3.60	**3.33**		
							14.57		
	Total						**310.64**	**222.20**	**69025.00**
7	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge. (Vol-2, Pg No.50 Item No 8.51 of PWD SR 2021-								
	Inside walls	sqm							
	Room 1		2.0	6.70		3.60	**48.24**		
			2.0	6.40		3.60	**46.08**		
	CE office		2.0	6.00		1.50	**18.00**		
			2.0	3.30		1.50	**9.90**		
			2.0	0.33		1.50	**0.99**		
	Anti room		2.0	2.75		3.60	**19.80**		
			2.0	1.77		3.60	**12.74**		
			2.0	0.30		3.60	**2.16**		
	Toilet		2.0	2.10		1.50	**6.30**		
			2.0	1.60		1.50	**4.80**		
	Entrance		1.0	3.30		3.60	**11.88**		
			1.0	1.70		3.60	**6.12**		
			1.0	2.30		3.60	**8.28**		
			1.0	1.45		3.60	**5.22**		
	C1		1.0	0.52		3.60	**1.87**		
	C2		1.0	1.30		3.60	**4.68**		
	C3		1.0	0.20		3.60	**0.72**		
	Ceiling								
	Room 1		1.0	6.70	6.40		**42.88**		

Assistant Executive Engineer
Yelahanka Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

Sl. No.	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
	CE office		1.0	6.00	3.30		**19.80**		
	Anti room		1.0	2.75	1.60		**4.40**		
			1.0	1.85	0.50		**0.93**		
	Toilet		1.0	2.10	1.60		**3.36**		
	Entrance		1.0	1.70	1.85		**3.15**		
			1.0	1.70	1.45		**2.47**		
	Corridor (Passage)		2.0	19.00	3.60		**136.80**		
			2.0	7.20	3.60		**51.84**		
			2.0	1.65	3.60		**11.88**		
	Ceiling (passage)		1.0	19.00	1.65		**31.35**		
			1.0	7.20	1.65		**11.88**		
	Small Room (Inide)		2.0	2.90	3.60		**20.88**		
			2.0	1.10	3.60		**7.92**	309.84	
	Ceiling		1.0	2.90	1.10		**3.19**		
							560.50		
	Deductions								
	D1		1.0		1.10	2.10	**2.31**		
	D2		0.5		0.90	2.10	**0.95**		
	D3		0.5		0.75	2.10	**0.79**		
	W		2.0		1.20	1.30	**3.12**		
			1.0		0.60	1.30	**0.78**		
	Entrance passage		0.5	1.85		3.60	**3.33**		
	Deductions for passage								
	D3		0.5		0.75	1.90	**0.71**		
	D1		0.5		1.10	2.10	**1.16**		
	D2		2.5		0.90	2.10	**4.73**		
	W		1.5		1.20	1.30	**2.34**		
			2.5		0.60	1.30	**1.95**		
			1.5		1.30	2.40	**4.68**		
	V		0.5		0.85	0.62	**0.26**		
	Deductions for small room								
	Door		0.5		1.10	2.10	**1.16**		
	Window		0.5		1.20	1.30	**0.78**	358.07	
							29.03		
	Total						**531.47**	**91.30**	**48523.00**
8	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (Vol-2, Pg No.48 Item No 8.40 of PWD SR 2021-22)								
	Inside walls								
	Room 1	sqm	2	6.70		3.60	**48.24**		
		sqm	2	6.40		3.60	**46.08**		
	CE office	sqm	2	6.00		1.50	**18.00**		
		sqm	2	3.30		1.50	**9.90**		
		sqm	2	0.33		1.50	**0.99**		
	Anti room	sqm	2	2.75		3.60	**19.80**		
		sqm	2	1.77		3.60	**12.74**		
		sqm	2	0.30		3.60	**2.16**		
	Toilet	sqm	2	2.10		1.50	**6.30**		

Assistant Executive Engineer
Kudigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Sl. No.	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
	-	sqm	2	1.60		1.50	**4.80**		
	Entrance	sqm	1	3.30		3.60	**11.88**		
		sqm	1	1.70		3.60	**6.12**		
		sqm	1	2.30		3.60	**8.28**		
		sqm	1	1.45		3.60	**5.22**		
	C1	sqm	1	0.52		3.60	**1.87**		
	C2	sqm	1	1.30		3.60	**4.68**		
	C3	sqm	1	0.20		3.60	**0.72**		
	Ceiling								
	Room 1	sqm	1	6.70	6.40		**42.88**		
	CE office	sqm	1	6.00	3.30		**19.80**		
	Anti room	sqm	1	2.75	1.60		**4.40**		
		sqm	1	1.85	0.50		**0.93**		
	Toilet	sqm	1	2.10	1.60		**3.36**		
	Entrance	sqm	1	1.70	1.85		**3.15**		
		sqm	1	1.70	1.45		**2.47**		
	Passage	sqm	2	19.00		3.60	**136.80**		
		sqm	2	7.20		3.60	**51.84**		
		sqm	2	1.65		3.60	**11.88**		
	Ceiling (passage)	sqm	1	19.00	1.65		**31.35**		
		sqm	1	7.20	1.65		**11.88**		
	Small Room (Inide)	sqm	2	2.90		3.60	**20.88**		
		sqm	2	1.10		3.60	**7.92**		
	Ceiling	sqm	1	2.90	1.10		**3.19**		
							560.50		
	Deductions								
	D1	sqm	1.0		1.10	2.10	**2.31**		
	D2	sqm	0.5		0.90	2.10	**0.95**		
	D3	sqm	0.5		0.75	2.10	**0.79**		
	W	sqm	2.0		1.20	1.30	**3.12**		
		sqm	1.0		0.60	1.30	**0.78**		
	Entrance passage	sqm	0.5	1.85		3.60	**3.33**		
	Deductions for Passage								
	D3	sqm	0.5		0.75	1.90	**0.71**		
	D1	sqm	0.5		1.10	2.10	**1.16**		
	D2	sqm	2.5		0.90	2.10	**4.73**		
	W	sqm	1.5		1.20	1.30	**2.34**		
		sqm	2.5		0.60	1.30	**1.95**		
		sqm	1.5		1.30	2.40	**4.68**		
	V	sqm	0.5		0.85	0.62	**0.26**		
	Deduction for Small room								
	Door	sqm	0.5		1.10	2.10	**1.16**		
	Window	sqm	0.5		1.20	1.30	**0.78**		
							29.03		
							531.47	**99.00**	**52615.00**

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Assistant Executive Engineer
Yelahanka Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

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Sl. No.	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
9	Finishing walls with water proofing cement paint of required shade :New work (Two coats applied @ 4.84 kg/10 m²) to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (Vol-2, Pg No.45 Item No 8.28 of PWD SR 2021-22)								
	Window chejja (Top & bootom)	sqm	10.0	1.50	0.60		**9.00**		
	Sides	sqm	5.0	2.70		0.06	**0.81**		
	Ventilator (top & bottom)	sqm	2.0	0.80	0.60		**0.96**		
	Sides	sqm	1.0	2.00		0.06	**0.12**		
							10.89	**72.60**	**791.00**
10	Fixing of door frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour charges, complete as per specifications. (Vol-2, Pg No.105 Item No 12.51 of PWD SR 2021-22)								
	D1	Nos	1.0				**1.00**		
	D2	Nos	1.0				**1.00**		
	D3	Nos	1.0				**1.00**		
	D4	Nos	1.0				**1.00**		
							4.00	**1633.50**	**6534.00**
11	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications. (Vol-2, Pg No.99 Item No 12.11 of PWD SR 2021-22)								
	Doors								
	D1	cum	1.0	5.30	0.08	0.10	**0.04**		
	D2	cum	1.0	5.10	0.08	0.10	**0.04**		
	D3	cum	1.0	4.95	0.08	0.10	**0.04**		
	D4	cum	1.0	4.95	0.08	0.10	**0.04**		14915.00
	Total						**0.15**	**99432.30**	**15139.00**
12	Providing and fixing flush door shutter made out of solid core block board type, well seasoned , chemicaly treated hard wood battens and internal frame with minimum 45 mm wide wooden frame alround door shutters covered with cross bonded wooden sheets (core veneer) hot pressed and fastened on both sides of the door useing liquid phenol formaldehyde resin as per IS specifications 2202 (part-I) 1991. from manufacturer complete as per spcification. - 40mm thick both side teak (Vol-2, Pg No. 106 Item No 12.57.7 of PWD SR								
	D1	sqm	1.0	1.10		2.10	**2.31**		
	D2	sqm	1.0	0.90		2.10	**1.89**		24542.00
	D3	sqm	1.0	0.75		2.10	**1.58**		
							5.78	**4246.00**	**24521.00**
13	Providing & fixing 30mm thick factory made rigid foam Prelam Panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for stiles and 15x15mm for top & bottom rails, covered with heat moulded Prelaminated PVC C Channel of 5mm thick sheet & 30x50mm wide to form stiles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S. frame, Sealed to the stiles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm Aluminium hinges. -do- with both side prelam (Vol-2, Pg No. 106 Item No 12.55.1 of PWD SR 2021-22)								

Assistant Executive Engr.
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Yelahanka Zone, B.B.

Sl. No.	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
	D4	sqm	1.0	0.75		1.90	**1.42**		5940.00
							1.42	**4183.30**	**5919.00**
14	Providing & fixing of 3-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 108mm width x 45mmheight with reinforcement of 1mm thickness and Sash with overall size of 39mmx 75mm with GI reinforcement of 2mm and mesh sash of size 37mm x 58mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 6mm plain float glass, standard hardware& Multi point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 2419mm x 2200mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made) (Vol-2, Pg No.112 Item No 12.90 of PWD SR 2021-22)								
	Windows	sqm	6.0	1.20	1.30		**9.36**		
		sqm	1.0	0.60	1.30		**0.78**		
							10.14	**7964.00**	**80755.00**
15	Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size – 1000mm x 1000mm.(The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made) (Vol-2, Pg No.110 Item No 12.85 of PWD SR 2021-22)								
	Ventilator	sqm	1.0		0.60	0.60	**0.36**		
							0.36	**5357.00**	**1929.00**
16	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per m2 including pointing in white cement mixed with pigment of matching shade complete. (Vol-2, Pg No.60 Item No 9.10 of PWD								
	Toilet	sqm	1.0	2.10	1.60		**3.36**		
							3.36	**691.90**	**2325.00**
17	Providing skirting, dadooing, rises of steps with white glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. (Vol-2, Pg No.65 Item No								
	Toilet	sqm	2.0	2.10		2.10	**8.82**		
		sqm	2.0	1.60		2.10	**6.72**		
							15.54		
	Deductions								
	D4	sqm	1.0	0.75		1.90	**1.43**		
	V	sqm	1.0	0.60		0.60	**0.36**		
							1.79		297.12
	Total						**13.76**	**2159.30**	**29701.00**

Assistant Executive Engineer,
Jigehalli Sub Divisi
Yelahanka Zone, B.B.M
Bangalore.

Sl. No.	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
18	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent. (Vol-2, Pg No.63 Item No 9.24 of PWD SR 2021-22)								
	Room 1	sqm	1.0	6.70	6.40		**42.88**		
	CE office	sqm	1.0	6.00	3.30		**19.80**		
	Anti room	sqm	1.0	2.75	1.60		**4.40**		
		sqm	1.0	1.85	0.50		**0.93**		
	Entrance	sqm	1.0	1.70	1.85		**3.15**		
		sqm	1.0	1.70	1.45		**2.47**		
							73.62	**3169.10**	**233293.00**
19	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joints with white cement and matching pigments etc., complete.. Size of Tile 600x600 mm (Vol-2, Pg No.60 Item No 9.12.2 of PWD SR 2021-22)								
	Front	sqm	1.0	7.65	7.65		**58.52**		
							58.52	**1207.80**	**70683.00**
20	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate sections and other sections of approved make conforming to IS: 733 and IS:1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For Fixed Portion: Powder coated aluminium (minimum thickness of powder coating 50 micron) including cost of materials, labour, usage charges of machinery complete as per specifications. (Vol-								
	Partion walls	sqm							
	P1		1.0	2.25		3.00	**6.75**		
			3.0	0.54		3.00	**4.86**		
			1.0	3.20		3.00	**9.60**		
			1.0	2.30		3.00	**6.90**		
	P2		1.0	3.35		3.00	**10.05**		
			1.0	2.60		2.50	**6.50**		
			Sub total				**44.66**		
			Assume 2kg/sft				**961.08**	**426.80**	**410190.00**
21	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : W.C. pan with ISI marked black solid plastic seat and lid (Vol-2, Pg No.123 Item No 14.3.2 of PWD SR 2021-22)								
	EWC	each	1.0				**1.00**		
							1.00	**5390.00**	**5390.00**

Sl. No.	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
22	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brasspillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap (Vol-2, Pg No.125 Item No 14.7.4 of PWD SR 2021-22)								
	Wash basin	each	1.0				**1.00**		
							1.00	**2134.00**	**2134.00**
23	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings. (Vol-2, Pg No.125 Item No 14.8 of PWD SR 2021-22)								
	Pedastal	each	1.0				**1.00**		
							1.00	**1501.50**	**1502.00**
24	Supplying heavy gauge PVC Conduit Pipe ….dia ....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.								
	19/20mm dia 2mm thick (P No 2 ; I No 1.3.1)	Mtr					**80.00**	**51.00**	**4080.00**
25	25mm dia 2mm thick (P No 2 ; I No 1.3.2)	Mtr					**80.00**	**54.00**	**4320.00**
26	Supplying and fixing PVC/metal conduit Deep junction box								
	25mm deep junction box(P No 3 ; I No 1.5.2)	No					**30.00**	**47.00**	**1410.00**
27	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe and plastering, finishing upto wall surface complete.								
	upto 50mm conduit in brick wall(P No 3 ; I No 1.7.1)	Mtr					**55.00**	**21.00**	**1155.00**
28	upto 50mm conduit CC floor(P No 3; I No 1.7.2)	Mtr					**55.00**	**38.00**	**2090.00**
29	Supplying PVC/GI flexible conduit pipe…mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and on either end of thepi pe terminated completely								
	25mm (P No 3 ; I No 1.9.2)	Mtr					**5.00**	**28.00**	**140.00**
30	Supplying And Fixing Metal Fan Box with Round Hook.(P.N0 3,1.12)								
		No					**7.00**	**85.00**	**595.00**
31	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) without control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.								
	Short point upto 3Mtr from tapping point to out let via switch (P No 5 ; I No 2.2.1)	Pts					**5.00**	**160.00**	**800.00**
32	Medium point above 3M. upto 6M from tapping point to out let via switch (P No 5 ; I No 2.2.2)	Pts					**4.00**	**250.00**	**1000.00**

12/06/2023

Executive Engineer
Kengeri Sub Divis.
Vrishabhavathi Zone, B.B.M.P.
Bangalore.

Sl. No.	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
33	Long point above 6Mtr. upto 10Mtr from tapping point to out let via switch (P No 5 ; I No 2.2.3)	Pts					20.00	375.00	7500.00
34	Two outlet in a row, above 3Mtr upto 6Mtr from tapping point to out let via switches (P No 5 ; I No 2.2.4)	Pts					10.00	475.00	4750.00
35	Three outlet in a row, above 6Mtr upto 10Mtr from tapping point to out let via switches (P No 6 ; I No 2.2.5)	Pts					5.00	675.00	3375.00
36	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments.								
	1 sqmm (P.No. 5, I.No.2.3.1)	Mtr					500.00	14.00	7000.00
37	1.5 sqmm (P.No. 5, I.No.2.3.2)	Mtr					1000.00	20.50	20500.00
38	2.5 sqmm (P.No. 6, I.No.2.3.3)	Mtr					100.00	32.00	3200.00
39	4 sqmm (P.No. 6, I.No.2.3.4)	Mtr					50.00	45.00	2250.00
40	6 sqmm (P.No. 6, I.No.2.3.5)	Mtr					10.00	70.00	700.00
41	10 sqmm (P.No. 6, I.No.2.3.6)	Mtr					20.00	115.00	2300.00
42	Supplying and **flush mounting powder coated / galvanized metal box** suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall								
	6Way(P.NO 9,3.4.3)	No					1.00	125.00	125.00
43	8Way(P.NO 9,3.4.4)	No					5.00	145.00	725.00
44	10-12Way(P.NO 9,3.4.5)	No					5.00	165.00	825.00
45	16-18Way(P.NO 9,3.4.6)	No					2.00	180.00	360.00
46	Supplying and fixing **superior quality modular switch mounting polycarbonate plate** with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.								
	6 Module(P.NO 9,3.5.3)	No					1.00	175.00	175.00
47	8 Module(P.NO 9,3.5.4)	No					5.00	200.00	1000.00
48	12 Module(P.NO 9,3.5.5)	No					5.00	230.00	1150.00
49	16-18 Module(P.NO 9,3.5.6)	No					2.00	270.00	540.00
50	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.								
	6Amps one way.(P.NO 10,3.6.1)	No					108.00	70.00	7560.00
51	Stepped Fan Regulator.(P.NO 10,3.6.4)	No					7.00	290.00	2030.00
52	16Amps one way switch	No					3.00	115.00	345.00
53	32Amps DP switch	No					5.00	182.00	910.00

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

16/06

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Sl. No.	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
54	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.								
	6-32 Amps SP.	No					**10.00**	**434.00**	**4340.00**
55	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.II - Double Door								
	6 way TPN	No					**1.00**	**3330.00**	**3330.00**
56	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.								
	100Amps 4x30x6mm Aluminium Strips	Mtr					**3.00**	**2050.00**	**6150.00**
57	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat … with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.								
	50x50x6mm	Mtr					**3.00**	**330.00**	**990.00**
58	40*40*6mm	Mtr					**3.00**	**255.00**	**765.00**
59	50X100X50X6mm C channel	Mtr					**3.00**	**630.00**	**1890.00**
60	Fabricating supplying and mounting MS box made out … SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour								
	14SWG	Sqcms					**125000.00**	**0.40**	**50000.00**
61	PART-F-FANS AND HVAC Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete.15" Sweep (P.No.46 I.No 7.2.2)								
		No					**1.00**	**4000.00**	**4000.00**
62	Supplying of Ceiling Fan with Capacitor rating As per guideline of BEE 5 star rating and IS:374/79 and also comply with IS:1709/1984 with latest amendment, Rated voltage 220 V/ 50 Hz, Rated power input 48 W +/- 10 %, Rated current As per IS:374/79, Rated power factor 0.9 lagging(min), Rated speed 350 +/- 10% RPM, Rated air delivery 210 +/- 10% Cubic Meter Minimum, Rated service value ≥ 4.2 CMM / Watt, Three Blades of blade leaf 1.05mm thick Aluminium Alloy sheet, Class B motor insulation,Bearing Two ball bearings, Top 6202, Bottom 6201 , as per IS specification, Motor wdg. Temp rise Shall not exceed 75 degC over and ambient of 40 0C by resistance method at 245Volts, Insulation resistance Shall not be less than Two Mega Ohms (2 M Ohms), Leakage current Should not exceed 210Micro Amp, Power input, watt& current , Air Delivery & Fan Speed as per IS:374/1979 with latest amendment, 2 year manufacturer Warranty								
	48" Sweep 5 Star (1200mm)	No					**8.00**	**2900.00**	**23200.00**
63	Supplying of .....feet - PVC Batten with integrated LED tube.....W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition.								
	LED light fighting 1 x 4' - 20/22w	No					**20.00**	**375.00**	**7500.00**

Assistant Executive Engineer,
Jigehalli Sub Divisi.
Yelahanka Zone, B.B.M.

Sl. No.	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
64	Fixing all types and all capacities of fluorescent / false ceiling/ spot light / CFL / LED fittings indoor on the wall / ceiling /rafters / girders using 23/0.0076" twin twisted PVC insulatedwires, required Nos of round blocks and clamps.(P.NO.79,14.7.1)								
		No					**20.00**	**110.00**	**2200.00**
65	Fixing a ceiling / wall mounting fan of all capacities and all types, with necessary clamps and 'S' hook made out of 15mm dia MS rod, with 5 amps. ceiling rose of approved quality with necessary length of 23 / 0.0076 inch PVC insulated twin twisted wire of approved quality, mounted on a suitable size wooden board and wired.								
		No					**7.00**	**260.00**	**1820.00**
66	Extra length of GI pipe of class B 19mm dia for down rod..								
		No					**7.00**	**160.00**	**1120.00**
67	Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts and 5 amps. ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire..								
		No					**1.00**	**400.00**	**400.00**
				Sub total	1270195.00		**Sub Total**		**1270204.00**
				Round off	11.00				
				GST 18%	228600.00		**GST (18%)**		**228637.00**
				total	1498600.00		**Grand Total Amount**		**1498841.00**

26/06/2023

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

Assistant Executive Engineer,
Byatarayanapura Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : **Renovation of Chier Engineer Chamber in Yelahanka Zonal office Buidling in ward No. 09**

EMB

Pre- Measurement

Job Code : **009-23-000016**

BRUHATH BANGALORE MAHANAGARAPALIKE
YELAHANKA ZONE
Pre Measurements

Name of work: Renovation of Chier Engineer Chamber in Yelahanka Zonal office Buidling in ward No. 09

Work Order No: BBMP/EE/BTP/WO/200/2020-21 dt: 28.03.2023

JOB NUMBER: 009-23-000016

Estimate Cost: 15.00 lakhs.

Name of Contractor : Sri. Siddesha

Sl. No.	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity
1	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground to the appropriate disposal area as per direction of Engineer-in-charge. (Vol-2, Pg No.169 Item No 19.53 of PWD SR 2021-22)						
	Inside walls	sqm					
	Room 1		2.0	6.70		3.60	**48.24**
			2.0	6.40		3.60	**46.08**
	CE office		2.0	6.00		3.60	**43.20**
			2.0	3.30		3.60	**23.76**
			2.0	0.33		3.60	**2.38**
	Anti room		2.0	2.75		3.60	**19.80**
			2.0	1.77		3.60	**12.74**
			2.0	0.30		3.60	**2.16**
	Toilet		2.0	2.10		1.50	**6.30**
			2.0	1.60		1.50	**4.80**
	Entrance		1.0	3.30		3.60	**11.88**
			1.0	1.70		3.60	**6.12**
			1.0	2.30		3.60	**8.28**
			1.0	1.45		3.60	**5.22**
	C1		1.0	0.52		3.60	**1.87**
	C2		1.0	1.30		3.60	**4.68**
	C3		1.0	0.20		3.60	**0.72**
	Ceiling						
	Room 1		1.0	6.70	6.40		**42.88**
	CE office		1.0	6.00	3.30		**19.80**
	Anti room		1.0	2.75	1.60		**4.40**
			1.0	1.85	0.50		**0.93**
	Toilet		1.0	2.10	1.60		**3.36**
	Entrance		1.0	1.50	1.85		**2.78**
			1.0	1.50	1.45		**2.18**
							324.57
	Deductions						
	D1		1.0		1.10	2.10	**2.31**
	D2		1.0		0.90	2.10	**1.89**
	D3		1.0		0.75	2.10	**1.58**
	W		3.0		1.20	1.30	**4.68**
			1.0		0.60	1.30	**0.78**
	Entrance passage		0.5	1.85		3.60	**3.33**

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

14.57

Sl. No.	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity
							14.57
				Actiual Qty			310.00

10.04.2023

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material to the appropriate disposal area as per direction of Engineer-in-charge. For thickness of tiles 10 mm to 25 mm. (Vol-2, Pg No.165 Item No 19.22.1 of PWD SR 2021-22)						
	Room 1	sqm	1.0	6.70	6.40		**42.88**
	CE office		1.0	6.00	3.30		**19.80**
	Anti room		1.0	2.75	1.60		**4.40**
			1.0	1.85	0.50		**0.93**
	Entrance		1.0	1.50	1.70		**2.55**
			1.0	1.70	1.45		**2.47**
	Toilet		1.0	2.10	1.60		**3.36**
	Toilet walls		2.0	2.10		2.10	**8.82**
			2.0	1.60		2.10	**6.72**
							91.97
	Deductions						
	D4		0.5	0.75		2.10	**0.79**
	V		0.5	0.60		0.60	**0.18**
							0.97
				Actiual Qty			**91.00**

13/4/23

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

13.04.2023

Siddesha

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

4	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material to the appropriate disposal area as per direction of Engineer-in-charge. (Vol-2, Pg No.169 Item No 19.54 of PWD SR 2021-22)						
	P1	sqm	1.0	2.25		1.52	**3.42**
			3.0	0.50		1.52	**2.28**
			1.0	3.20		1.52	**4.86**
			1.0	2.30		1.52	**3.50**
	P2		1.0	3.30		2.45	**8.09**
			1.0	2.60		2.45	**6.37**
	Windows		6.0	1.20	1.30		**9.36**
			1.0	0.60	1.30		**0.78**
	Ventilator		1.0		0.60	0.60	**0.36**
				Actiual Qty			**39.00**

13/04/2023

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

5	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete as per specifications and as per directions of Engineer in charge.(Vol-2, Pg No.51 Item No 8.57 of PWD SR 2021-22)						

Siddesh

Sl. No.	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity
	Corridor (Passage)	sqm	2.0	19.00		3.60	**136.80**
			2.0	7.20		3.60	**51.84**
			2.0	1.65		3.60	**11.88**
	Ceiling (passage)		1.0	19.00	1.65		**31.35**
			1.0	7.20	1.65		**11.88**
	Small Room (Inide)		2.0	2.90		3.60	**20.88**
			2.0	1.10		3.60	**7.92**
	Ceiling		1.0	2.90	1.10		**3.19**
							275.74
	Deductions for passage						
	D3		0.5		0.75	1.90	**0.71**
	D1		0.5		1.10	2.10	**1.16**
	D2		2.5		0.90	2.10	**4.73**
	W		1.5		1.20	1.30	**2.34**
			2.5		0.60	1.30	**1.95**
			1.5		1.30	2.40	**4.68**
	V		0.5		0.85	0.62	**0.26**
	Deductions for small room						
	Door		0.5		1.10	2.10	**1.16**
	Window		0.5		1.20	1.30	**0.78**
							17.76
					Actiual Qty		**257.98**

19/04/2023

Assistant Engineer
Ward No. 06

Suddesh

Assistant Executive Engineer,
Byatarayanapura Sub Division

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.